

EXPRESS MAIL CERTIFICATE

I hereby certify that the above paper/fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to the Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on **November 14, 2003**, Express Mail No. **EV298900576US**. Signature of Person mailing paper/fee:


Grace AnceaIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Mahendra PAKALA, et al.

Serial No: To Be Assigned

Filed: Herewith

For: STRESS ASSISTED CURRENT DRIVEN SWITCHING FOR MAGNETIC
MEMORY APPLICATIONS

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. §1.97

Sir:

Pursuant to 37 C.F.R. §1.97 and §1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. The Examiner is requested to make these documents of record. This Information Disclosure Statement is being submitted:

- ☒ With copies.
- ☐ Without copies. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial No. **, filed **. This protocol conforms with 37 C.F.R. §1.98(d) and M.P.E.P. 609 (A)(2).
- ☐ Without copies. This protocol conforms with 37 CFR 1.98(a)(2)(i), which waives the requirement for submitting a copy of each cited U.S. Patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003.
- ☐ The documents listed on the attached Form PTO-1449 were cited in a Search Report directed to a counterpart international or foreign application.

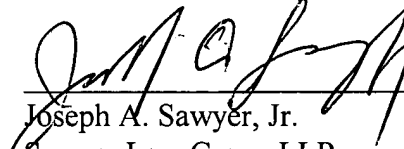
- ☒ With the application; accordingly, no fee or separate requirements are required.
- ☐ Within three months of the application filing date, or before mailing of a first Office Action on the merits.
- ☐ After receipt of a first Office Action on the merits, but before the mailing date of a Final Office Action under §1.113, or a Notice of Allowance §1.311. Accompanied by one of:
 - ☐ Certification under 37 CFR §1.97(e); **or**
 - ☐ The fee set forth in §1.17(p)
- ☐ After mailing of a final Office Action or Notice of Allowance, but on or before payment of the issue fee. Accompanied by:
 - ☐ Certification under 37 CFR §1.97(e); **and**
 - ☐ The fee set forth in §1.17(p)
- ☐ A Certification under 37 C.F.R. §1.97(e) is provided below:
 - ☐ I hereby certify that each item of information was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
 - or-
 - ☐ I hereby certify that no item of information was cited in a communication from a foreign patent office in a counterpart foreign application or, to the best of my knowledge after making a reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

If any unresolved issues remain, please contact Applicant's attorney at the telephone number indicated below. The Commissioner is hereby authorized to charge any fees associated with this communication, or credit any overpayment, to Deposit Account No. **02-2120 (Sawyer Law Group LLP)**.

Respectfully submitted,

November 14, 2003
Date


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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 2959P	SERIAL NO. To Be Assigned
	APPLICANT: Mahendra PAKALA, et al.	
	FILING DATE: Herewith	GROUP: To Be Assigned

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPRO.)
	6 5 3 2 1 6 4	03-11-2003	Redon et al.			
	5 6 9 5 8 6 4	12-09-1997	Slonczewski			
	US 2002/0105827	08-08-2002	Redon et al.			
	US 2003/0007398	01-09-2003	Daughton et al.			
	US 2003/0059588	03-27-2003	Hannah et al.			

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	<i>Quantitative Study of Magnetization Reversal by Spin-Polarized Current in Magnetic Multilayer Nanopillars,</i> F.J. Albert, N.C. Emley, E.B. Myers, D.C. Ralph and R.A. Buhrman, The American Physical Society, Physical Review Letters, Volume 89, Number 22, 25 November 2002.
	<i>Perpendicular Magnetic Anisotropy in Pd/Co Thin Film Layered Structures,</i> P.F. Garcia, A.D. Meinhaldt and A. Suna, American Institute of Physics, Appl. Phys. Lett. 47 (2), 15 July 1985.
	<i>Origins of Perpendicular Magnetic Anisotropy in Ni/Pd Multilayer Films,</i> Jong-Ryul Jeong, Young-Seok Kim and Sung-Chul Shin, Journal of Applied Physics, Volume 85, Number 8, 15 April 1999.
	<i>Current-Driven Magnetization Reversal and Spin-Wave Excitations in Co/Cu/Co Pillars,</i> J.A. Katine, F.J. Albert and R.A. Buhrman, The American Physical Society, Physical Review Letters, Volume 84, Number 14, 3 April 2000.
	<i>Voltage Control of a Magnetization Easy Axis in Piezoelectric/Ferromagnetic Hybrid Films,</i> Sang-Koog Kim, Jeong-Won Lee, Sung-Chul Shin, Han Wook Song, Chang Ho Lee, Kwangsoo No, Journal of Magnetism and Magnetic Materials, 2 January 2003.
	<i>Overlayer-Induced Anomalous Interface Magnetocrystalline Anisotropy in Ultrathin Co Films,</i> Lieping Zhong, Miyoun Kim, Xindong Wang and A.J. Freeman, The American Physical Society, Physical Review B, Volume 53, Number 15, 15 April 1996.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.